Translation

PATENT COOPERATION TREATY

PCT Application PCT/JP2003/005

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
PH-1812-PCT International application No.	FOR FURTHER ACTION SeeNotification of Transmittal of International Preliminal Examination Report (Form PCT/IPEA/416)			
PCT/JP03/05956	anomational filing date (day/month/year)			
International Patent Classification				
International Patent Classification (IPC) or a C12N 15/09, 1/19, C12P 21/02	ational classification and IPC			
Applicant NATIONAL DIGGERAL				
TATTONAL INSTITUTE OF	ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY			
	ation report has been prepared by this International Preliminary Examining Authority ording to Article 36.			
2. This REPORT consists of a total of	ording to Article 36.			
This are the control of a total of	sheets, including this cover sheet.			
	by ANNEXES, i.e. sheets of the			
These annexes consist of a total	ofsheets.			
3. This report contains indications relating	to the following items.			
I Basis of the report	terns:			
II Priority				
III Non-establishment of or	inion with regard to novelty, inventive step and industrial applicability			
OIAM	u e			
V Reasoned statement unde citations and explanation	r Article 35(2) with regard to novelty, inventive step or industrial applicability;			
VI Certain documents cited	of industrial applicability;			
VII Certain defects in the inte	national application			
VIII Certain observations on the	e international application			
e of submission of the demand				
13 May 2003 (13.05.03)	Date of completion of this report			
	22 October 2003 (22.10.2003)			
e and mailing address of the IPEA/JP	Authorized officer			
mile No.	Telephone No.			
PCT/IPEA/409 (cover sheet) (July 1998)	Totophione Mo.			



International application No.

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I. Ba	sis o	f the re	port				
1. W	ith r	egard to	the elements of the international application:*				
\triangleright	\leq	the inte	mational application as originally filed				
Γ		the desc	eription:				
_	_	pages	, as originally filed				
		pages	, filed with the demand				
		pages	, filed with the letter of				
lг	٦	the clai					
L		pages	as originally filed				
		pages	, as amended (together with any statement under Article 19				
		pages	, filed with the demand				
		pages	, filed with the letter of				
lΓ	7	the dra					
▎ဵ		pages	, as originally filed				
	•	pages	, filed with the demand				
		pages	, filed with the letter of				
lг	٦.	he cean	ence listing part of the description:				
╽└		pages	, as originally filed				
		pages	, filed with the demand				
		pages	, filed with the letter of				
2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language							
	Ц		nguage of a translation furnished for the purposes of international search (under Rule 23.1(b)).				
	Ц		nguage of publication of the international application (under Rule 48.3(b)).				
	Ш	or 55.	·				
3.	With preli	minary	I to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing:				
	Ц		ined in the international application in written form.				
1	Ц	filed	ogether with the international application in computer readable form.				
į.	Ц		hed subsequently to this Authority in written form.				
	Ц		thed subsequently to this Authority in computer readable form.				
	\Box	interr	statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the national application as filed has been furnished.				
			statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.				
4.		The a	mendments have resulted in the cancellation of:				
			the description, pages				
1			the claims, Nos.				
			the drawings, sheets/fig				
5.		This is	report has been established as if (some of) the amendments had not been made, since they have been considered to go and the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
*	in t	lacemen his repo 70.17).	t sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16).				
**			ment sheet containing such amendments must be referred to under item 1 and annexed to this report.				

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
the entire international application.						
Claims Nos Part of 3-4 and 1-2, 15-12						
because:						
the said international application, or the said claims Nos						
the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):						
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.						
no international search report has been established for said claims Nos. Part of 3-4 and 1-2, 15-12						
2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard.						

INTERNATIONA -- RELIMINARY EXAMINATION REPORT

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III.1

An international search report was not created for the portions of claims 1-2 and 5-12 other than the portions that pertain to a DNA fragment that occurs in the upstream region of gene no. 86 (YFL014W); therefore, the novelty, inventive step and industrial applicability of the other inventions were not examined.

(The technical feature common to claims 1 and 2 and the portions of claims 5-12 that pertain to claims 1-2 is the "DNA fragment occurring in the upstream regions of the genes from Saccharomyces cerevisiae, which functions as a cold-inducible promoter." However, this feature is well known as disclosed in the document JP 8-9977 A; therefore, the "DNA fragment occurring in the upstream regions of the genes from Saccharomyces cerevisiae, which functions as a cold-inducible promoter" cannot be said to be a special technical feature. Consequently, claims 1-2 and the portions of claims 5-12 that pertain to claims 1-2 cannot be said to exhibit a technical relationship that involves a special technical feature, and thus cannot be considered to be so linked as to form a single general inventive concept.)

INTERNATIONAL RELIMINARY EXAMINATION REPORT

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			•
Novelty (N)	Claims	9-12	YES
	Claims	1-2, 5-8	NO
Inventive step (IS)	Claims	9-12	YES
	Claims	1-2, 5-8	NO
Industrial applicability (IA)	Claims	1-2, 5-12	YES
	Claims		NO

2. Citations and explanations

Document 1: Mol. Cell. Biol., 1995, Vol. 15, No. 11, pages

6232-6245

Document 2: Microbiology, 2000, Vol. 146, No. 2, pages

367-375

Claims 1-2 and 5-8

The inventions that are set forth in claims 1-2 and 5-8 lack novelty in the light of document 1 or document 2 cited in the international search report.

Documents 1 and 2 disclose the promoter of the HSP12 gene from Saccharomyces cerevisiae.

Consequently, the inventions that are set forth in claims 1-2 and 5-8 cannot be differentiated from the inventions that are disclosed in document 1 or document 2.

Claims 9-12

The inventions that are set forth in claims 9-12 are novel and involve an inventive step in relation to documents 1-2 cited in the international search report.

The feature wherein the promoter of the HSP12 gene from Saccharomyces cerevisiae is induced under low temperature conditions is not disclosed in any of the documents, and is not considered to be obvious to a person skilled in the art of this technical field.